

Amendments to Claims

CLAIM LISTING

1. (original) A method for detecting the presence of FMDV in a sample, the method comprising:

(a) performing RT-PCR amplification of the sample using at least one primer pair selected from the group consisting of:

- (i) SEQ ID NOs:16 and 17,
- (ii) SEQ ID NOs:16 and 18,
- (iii) SEQ ID NOs:16 and 19, and
- (iv) SEQ ID NOs:16 and 20,

to produce an RT-PCR amplification result; and

(b) examining the RT-PCR amplification result of step (a) to detect for an amplification product of the primer pair, whereby a positive detection of the amplification product indicates the presence of FMDV in the sample.

2. (original) The method of claim 1, wherein in step (b) a melting curve analysis is used to detect for an amplification product.

3. (original) The method of claim 1, further comprising a step of extracting RNA from the sample prior to said step (a).

4. (currently amended) ~~An isolated polynucleotide~~ A primer for use in ~~primer-directed nucleic acid~~ PCR amplification for detection of FMDV consisting essentially of SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, or SEQ ID NO:20.

5. (previously presented) A kit for detection of FMDV, comprising:

(a) at least one primer pair selected from the group consisting of:

- (i) SEQ ID NOs:16 and 17,
- (ii) SEQ ID NOs:16 and 18,
- (iii) SEQ ID NOs:16 and 19, and
- (iv) SEQ ID NOs:16 and 20;

(b) reverse transcriptase; and

(c) thermostable DNA polymerase.

6. (previously presented) A replication composition for use in performance of RT-PCR, comprising:

- (a) at least one primer pair selected from the group consisting of:
 - (i) SEQ ID NOs:16 and 17,
 - (ii) SEQ ID NOs:16 and 18,
 - (iii) SEQ ID NOs:16 and 19, and
 - (iv) SEQ ID NOs:16 and 20;
- (b) reverse transcriptase; and
- (c) thermostable DNA polymerase.

7. (original) A tablet comprising the replication composition of claim 6.

8. (original) A kit for detection of FMDV in a sample, comprising the tablet of claim 6.